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1 [Exploiting open functionality in SMS-capable cellular networks](#)



William Enck, Patrick Traynor, Patrick McDaniel, Thomas La Porta

November 2005 **CCS '05: Proceedings of the 12th ACM conference on Computer and communications security**

Publisher: ACM

Full text available: [pdf\(611.26 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 33, Downloads (12 Months): 283, Citation Count: 5

Cellular networks are a critical component of the economic and social infrastructures in which we live. In addition to voice services, these networks deliver alphanumeric text messages to the vast majority of wireless subscribers. To encourage the expansion ...

Keywords: denial-of-service, open-functionality, sms, telecommunications

2 [Mitigating attacks on open functionality in SMS-capable cellular networks](#)



Patrick Traynor, William Enck, Patrick McDaniel, Thomas La Porta

September
2006

MobiCom '06: Proceedings of the 12th annual international conference on Mobile computing and networking

Publisher: ACM

Full text available: [pdf\(346.27 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 13, Downloads (12 Months): 243, Citation Count: 2

The transformation of telecommunications networks from homogeneous closed systems providing only voice services to Internet-connected open networks that provide voice and data services presents significant security challenges. For example, recent research ...

Keywords: denial-of-service, open-functionality, sms, telecommunications

3 [A study of the short message service of a nationwide cellular network](#)



Petros Zerfos, Xiaoqiao Meng, Starsky H.Y Wong, Vidyut Samanta, Songwu Lu

October
2006

IMC '06: Proceedings of the 6th ACM SIGCOMM conference on Internet measurement

Publisher: ACM

Full text available: [pdf\(715.14 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 20, Downloads (12 Months): 157, Citation Count: 1

In recent years, cellular networks have experienced an astronomical increase in the use of Short Message Service (SMS), making it a popular communication means for inter-personal as well as content provider-to-person usage. Yet little is known about ...

Keywords: network measurements, short message service, traffic characterization

4 [Experiences with network-based user agents for mobile applications](#)

Thomas F. La Porta, Thomas Woo, Krishan K. Sabnani, Ramachandran Ramjee

August 1998

Mobile Networks and Applications, Volume 3 Issue 2

Publisher: Kluwer Academic Publishers


Full text available: [pdf\(631.57 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 62, Citation Count: 2


Wireless networks are characterized by simple end devices and limited bandwidth. One solution to address these and other limitations of the wireless mobile environment that has been widely pursued is the placement of proxies, or agents, inside the network ...

5 SOWER: self-organizing wireless network for messaging

 Mark Felegyhazi, Srdjan Čapkun, Jean-Pierre Hubaux

October 2004 **WMASH '04:** Proceedings of the 2nd ACM international workshop on Wireless mobile applications and services on WLAN hotspots

Publisher: ACM

Full text available:  [pdf\(338.76 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 44, Citation Count: 0


Short Message Service (SMS) has become extremely popular in many countries, and represents a ~multi-billion dollars market. Yet many consumers consider that the price charged by the cellular network operators is too high. In this paper, we explain that ...

Keywords: ad hoc networks, distributed computing, messaging, self-organization

6 Persistent personal names for globally connected mobile devices

Bryan Ford, Jacob Strauss, Chris Lesniewski-Laas, Sean Rhea, Frans Kaashoek, Robert Morris
November 2006 **OSDI '06:** Proceedings of the 7th symposium on Operating systems design and implementation

Publisher: USENIX Association

Full text available:  [pdf\(1.16 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 43, Citation Count: 0


The *Unmanaged Internet Architecture* (UIA) provides zero-configuration connectivity among mobile devices through *personal names*. Users assign personal names through an ad hoc device introduction process requiring no central allocation. Once ...

7 Simplifying fault diagnosis in locally managed rural WiFi networks

 Sonesh Surana, Rabin Patra, Eric Brewer

August 2007 **NSDR '07:** Proceedings of the 2007 workshop on Networked systems for developing regions

Publisher: ACM

Full text available:  [pdf\(366.58 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 20, Downloads (12 Months): 54, Citation Count: 0

The last three years have seen a lot of work in making WiFi-enabled Long Distance (WiLD) networking a reality in rural areas. Generally these networks are managed by non-local users who cannot guarantee long term support beyond a pilot. For long term ...


Keywords: developing regions, fault diagnosis, operational sustainability, rural WiFi

8 [Terminating telephony services on the internet](#)

Vijay K. Gurbani, Xian-He Sun

August 2004 **IEEE/ACM Transactions on Networking (TON)**, Volume 12 Issue 4

Publisher: IEEE Press

Full text available:  [pdf\(544.74 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 88, Citation Count: 0

We propose a general purpose service architecture for realizing services which start in the Public Switched Telephone Network (PSTN) but terminate and execute on the Internet. We discuss the needs for such services, our early research efforts in this ...

Keywords: HTTP, SIP, internet, public switched telephone network(PSTN), services, wireless, wireline


9 [Authentication on the edge: distributed authentication for a global open wi-fi network](#)



Nathanael A. Thompson, Zuoning Yin, Haiyun Luo, Petros Zerfos, Jatinder Pal Singh

September 2007 **MobiCom '07: Proceedings of the 13th annual ACM international conference on Mobile computing and networking**

Publisher: ACM

Full text available:  [pdf\(295.06 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 15, Downloads (12 Months): 194, Citation Count: 0

A global-scale low cost outdoor Internet access infrastructure is finally attainable. Emerging projects are leveraging the proliferation of private Wi-Fi networks to build a global-scale ubiquitous access infrastructure from autonomous, independently ...

Keywords: EAP-AGE, Wi-Fi networks, authentication, social network


10 [rhizoreality.mu](#)



Christian Babski, Patrick Keller

February 2001 **Web3D '01: Proceedings of the sixth international conference on 3D Web technology**

Publisher: ACM

Full text available:  [pdf\(1.44 MB\)](#)

Additional Information: [full citation](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 12, Citation Count: 3

Keywords: Java, VRML, multi-user, scalable system, shared virtual worlds


11 Developing privacy guidelines for social location disclosure applications and services



Giovanni Iachello, Ian Smith, Sunny Consolvo, Mike Chen, Gregory D. Abowd

July 2005 **SOUPS '05: Proceedings of the 2005 symposium on Usable privacy and security**

Publisher: ACM

Full text available:  pdf(268.41 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 20, Downloads (12 Months): 165, Citation Count: 6

In this article, we describe the design process of Reno, a location-enhanced, mobile coordination tool and person finder. The design process included three field experiments: a formative Experience Sampling Method (ESM) study, a pilot deployment and ...

Keywords: iterative design, people finder, privacy, prototyping, social mobile applications


12 Exploring the potential of mobile phones for active learning in the classroom



David Lindquist, Tamara Denning, Michael Kelly, Roshni Malani, William G. Griswold, Beth Simon

March 2007 **ACM SIGCSE Bulletin**, Volume 39 Issue 1

Publisher: ACM

Full text available:  pdf(2.13 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 24, Downloads (12 Months): 299, Citation Count: 0

Research has shown that educational technology can broaden and enhance the use of active learning in large classrooms. An educational technology platform often relies on students to bring laptops or specialized wireless devices like clickers to interact ...

Keywords: active learning, cell phone, educational technology, mobile phone, modality


13 Exploring the potential of mobile phones for active learning in the classroom



David Lindquist, Tamara Denning, Michael Kelly, Roshni Malani, William G. Griswold, Beth Simon

March 2007 **SIGCSE '07: Proceedings of the 38th SIGCSE technical symposium on Computer science education**

Publisher: ACM

Full text available:  pdf(2.13 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 24, Downloads (12 Months): 299, Citation Count: 0

Research has shown that educational technology can broaden and enhance the use of active learning in large classrooms. An educational technology platform often relies on students to bring laptops or specialized wireless devices like clickers to interact ...

Keywords: active learning, cell phone, educational technology, mobile phone, modality

14 Enterprise mobile applications based on presence and logical proximity



Xueshan Shan, Alok Shriram

July 2006 **IWCMC '06:** Proceedings of the 2006 international conference on Wireless communications and mobile computing

Publisher: ACM

Full text available: pdf(276.28 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 78, Citation Count: 0

A method and application architecture are proposed for improving the sharing of presence and other information between mobile clients and enterprise servers by determining, in a hybrid peer-to-peer (P2P) network based on logical proximity, when a mobile ...

Keywords: group presence, hybrid peer-to-peer, logical proximity, mobile web services, presence-based

15 Analysis of mobile commerce market in Hong Kong



Chi Hong LEUNG, Yuen Yan CHAN, Candy Suk Ching CHAN

September 2003 **ICEC '03:** Proceedings of the 5th international conference on Electronic commerce

Publisher: ACM

Full text available: pdf(93.24 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 16, Downloads (12 Months): 277, Citation Count: 0

Hong Kong is one of the cities with the highest penetration rate of mobile devices in the world. There is the potential for Hong Kong to be a leader of mobile commerce. Recently, the six local mobile network operators stimulated usage of SMS to promote ...

Keywords: communication standard, information market, marketing analysis, mobile commerce, mobile e-cert, mobile network operator

16 Can you infect me now?: malware propagation in mobile phone networks



Chris Fleizach, Michael Liljenstam, Per Johansson, Geoffrey M. Voelker, Andras Mehes

November 2007 **WORM '07:** Proceedings of the 2007 ACM workshop on Recurring malcode

Publisher: ACM

Full text available: pdf(946.28 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 32, Downloads (12 Months): 189, Citation Count: 0

In this paper we evaluate the effects of malware propagating using communication services in mobile phone networks. Although self-propagating malware is well understood in the Internet, mobile phone networks have very different characteristics in terms ...


Keywords: cellular phone networks, defenses, epidemiology, measurement, simulation, worms

17 Experiences in developing mobile applications using the Apricot Agent Platform

Petteri Alahuhta, Henri Löthman, Heli Helaakoski, Arto Koskela, Juha Röning

October 2006 **Personal and Ubiquitous Computing**, Volume 11 Issue 1

Publisher: Springer-Verlag

Full text available:  pdf(469.57 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 11, Downloads (12 Months): 139, Citation Count: 0

The trend of increasing mobile services has set a new challenge for service providers: how to develop more advanced and user-friendly, context-aware and personalized mobile services for the users. Apricot Agent Platform is an agent-based software platform ...


Keywords: Agent platform, Context awareness, Mobile application, Mobile service, Personalization

18 SNMP for home automation

Ran Giladi

July 2004 **International Journal of Network Management**, Volume 14 Issue 4

Publisher: John Wiley & Sons, Inc.

Full text available:  pdf(177.81 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 14, Downloads (12 Months): 118, Citation Count: 0

Home and building automation applications impose the need for convergence, or at least interoperability, of data networks with intelligent building networks. This situation entails the use of a unified management system. In this paper we extend the traditional ...

19 [A systematic approach for cell-phone worm containment](#)



Liang Xie, Hui Song, Trent Jaeger, Sencun Zhu

April 2008 **WWW '08:** Proceeding of the 17th international conference on World Wide Web

Publisher: ACM

Full text available: [pdf\(189.29 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 0, Citation Count: 0

Cell phones are increasingly becoming attractive targets of various worms, which cause the leakage of user privacy, extra service charges and depletion of battery power. In this work, we study propagation of cell-phone worms, which exploit Multimedia ...

Keywords: cell phone, patch, turing test

20 [Email classification for automated service handling](#)



Ross Tailby, Richard Dean, Ben Milner, Dan Smith

April 2006 **SAC '06:** Proceedings of the 2006 ACM symposium on Applied computing

Publisher: ACM

Full text available: [pdf\(422.21 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 57, Citation Count: 0

We describe the experience and lessons learned from developing a range of electronic services for a specialist engineering company. We are using a custom workflow management system as the base for a range of services which are offered via a multi-modal ...

Keywords: Naïve Bayes, T-Route, T-Trans, email, vector methods

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